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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/707,601	12/23/2003	Michael Scott Hebert	GEMS 0229 PA	1600
²⁷²⁵⁶ ARTZ & ART	7590 02/08/2007 7. P.C.		EXAM	INER
28333 TELEGRAPH RD. SUITE 250 SOUTHFIELD, MI 48034			KAO, CHIH CHENG G	
			ART UNIT	PAPER NUMBER
	•		2882	
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SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		02/08/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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	Application No.	Applicant(s)				
	10/707,601	HEBERT ET AL.				
Office Action Summary	Examiner	Art Unit				
	Chih-Cheng Glen Kao	2882				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.11 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 22 D	ecember 2006.					
· <u> </u>	action is non-final.					
3) Since this application is in condition for allowar	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-6 and 8-20</u> is/are pending in the ap	olication.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>8</u> is/are allowed.						
6)⊠ · Claim(s) <u>1-4,6,9-14 and 16-20</u> is/are rejected.						
7)⊠ Claim(s) <u>5 and 15</u> is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on <u>23 <i>December</i> 2003</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreigna) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a))-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)		• •				
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:	atent Application				

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 1. Claims 1-4, 6, 9, 10, 13, 14, and 16-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Schleinkofer (US 4189658).
- 2. Regarding claims 1 and 13, Schleinkofer discloses an assembly comprising a target shaft (fig. 1, #8), an x-ray target element (fig. 1, #11) mounted to said target shaft (fig. 1, #8), a plurality of circumferential features (fig. 2, features occupied by #12 and 17-19) formed in said x-ray target element (fig. 3, #11), and at least one weight element (fig. 2, #12 or 17-19) adapted to be securable in any of a plurality of positions (fig. 2, via #21 for example) within one of said circumferential features (fig. 2, feature occupied by #12 or 17-19) such that said x-ray target element is balanced (abstract) around said target shaft.
- Regarding claim 18, Schleinkofer discloses a method comprising placing a weight element (fig. 2, #12 or 17-19) within a circumferential feature (figs. 2 and 3, feature occupied by #12 or 17-19) formed onto an X-ray target element (fig. 3, #11), necessarily positioning said weight element (fig. 2, #12 or 17-19) in a position along said circumferential feature that

balances said x-ray target element (abstract), and securing (fig. 3, via #25) said weight element to said circumferential feature.

- 4. Regarding claims 2, 14, and 19, Schleinkofer further discloses wherein one of said circumferential features comprises a circumferential groove (fig. 2, #21-24) formed in said x-ray target element (fig. 3, #11).
- 5. Regarding claim 3, Schleinkofer further discloses wherein one of said circumferential features (fig. 2, feature occupied by #12 or 17-19) is positioned around (i.e., nearby) a perimeter surface of said x-ray target element (fig. 1, #11).
- 6. Regarding claim 4, Schleinkofer further discloses wherein one of said circumferential features (fig. 2, feature occupied by #12 or 17-19) is positioned around (i.e., nearby) an x-ray facing surface (fig. 3, surface of #11 facing up) of said x-ray target element (fig. 1, #11).
- Regarding claim 6, Schleinkofer further discloses wherein one of said circumferential 7. features comprises an entry port (fig. 2, via #21-24) formed in said circumferential feature (fig. 2, feature occupied by #12 or 17-19), said entry port allowing said at least one weight element (fig. 2, #12 or 17-19) to be inserted into said circumferential feature.
- 8. Regarding claims 9 and 16, Schleinkofer further discloses wherein one of said circumferential features comprises a circumferential securing elbow slot (fig. 2, #21-24), said at

least one weight element including a securing elbow (figs. 2 and 3, elbow of #12 or 17-19 in slot #21-24) adapted to fit within said circumferential securing elbow slot (fig. 2, #21-24) and secure said at least one weight element (fig. 2, #12 or 17-19) within said circumferential feature.

- 9. Regarding claim 10, Schleinkofer further discloses wherein said circumferential securing elbow slot comprises a t-shaped slot (#21 or 23 as viewed in fig. 3).
- 10. Regarding claims 17 and 20, Schleinkofer further discloses wherein said feature comprises a circumferential flange element (fig. 3, section of #11 under #21 or 23) positioned on said x-ray target element (fig. 3, #11).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 11. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Schleinkofer as applied to claim 9 above.

Schleinkofer discloses an assembly as recited above.

However, Schleinkofer fails to disclose wherein said circumferential securing elbow slot comprises a triangular slot.

It would have been obvious, to one having ordinary skill in the art at the time the invention was made, to modify the assembly of Schleinkofer with a triangular slot, since such a modification would have only involved a mere change in the shape of a component. A mere change in shape is generally recognized as being within the level of ordinary skill in the art. One would have been motivated to make such a modification to more easily position the weight element into the feature.

12. Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Schleinkofer as applied to claim 2 above, and further in view of Barber (4,842,485).

Schleinkofer discloses the assembly as recited above.

However, Schleinkofer fails to disclose wherein at least one weight element comprises an expandable weight assembly including an expansion bore and an expansion screw, said expansion screw expanding said expandable weight assembly to secure said at least one weight element within a groove.

Barber teaches wherein at least one weight element comprises an expandable weight assembly (fig. 5, #15) including an expansion bore (fig. 5, #37) and an expansion screw (fig. 5, #27), said expansion screw expanding said expandable weight assembly to secure said at least one weight element within a groove (fig. 5, #13).

It would have been obvious, to one having ordinary skill in the art at the time of the invention was made, to modify the assembly of Schleinkofer with the expandable weight assembly of Barber, since one would have been motivated to make such a modification for more

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easily inserting a weight element (fig. 3, via compression along the direction of "d") as implied

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from Barber.

Allowable Subject Matter

13. Claims 5 and 15 are objected to as being dependent upon a rejected base claim, but would

be allowable if rewritten in independent form including all of the limitations of the base claim

and any intervening claims. Claim 8 is allowed. The following is a statement of reasons for the

indication of allowable subject matter.

14. Regarding claim 5, prior art fails to disclose or fairly suggest an x-ray assembly,

including wherein an x-ray target element comprises a central neck portion extending from an x-

ray facing surface along an inner x-ray target diameter, one of a plurality of circumferential

features formed onto said central neck portion, in combination with all the limitations in the

claim.

15. Regarding claim 8, prior art fails to disclose or fairly suggest an x-ray assembly,

including a circumferential feature comprising a flange element positioned around and

protruding from a perimeter surface of an x-ray target element, and a plurality of mounting bores

positioned along said flange element, at least one weight element securable within any of said

plurality of mounting bores, in combination with all the limitations in the claim.

16. Regarding claim 15, prior art fails to disclose or fairly suggest an x-ray assembly, including wherein an x-ray target element comprises a central neck portion extending from an x-ray facing surface along an inner x-ray target diameter, a feature formed onto said central neck portion, in combination with all the limitations in the claim.

Response to Arguments

17. Applicant's arguments filed December 22, 2006, have been fully considered but they are not persuasive.

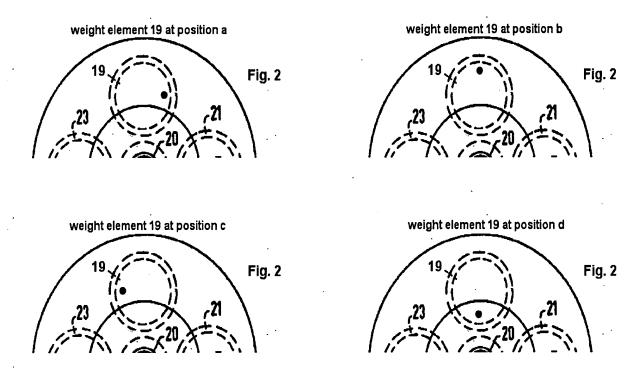
In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., "a circumferential feature with weight elements securable in any of a plurality of positions to balance", "flexible adjustable balancing features", "adapted to fit in a plurality of positions in the circumferential feature", circumferential grooves as defined by the specification, or circumferential grooves formed on an x-ray facing surface) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Furthermore, Schleinkofer reads on at least claims 1 and 13 as recited. The features (fig. 2, features occupied by #12 or 17-19) of Schleinkofer read on circumferential features, since the cross area of these features are in the shape of a circle. In addition, the weight element (fig. 2, #12 or 17-19) of Schleinkofer reads on "at least one weight element adapted to be securable in any of a plurality of positions within one of said circumferential features". In other words, the

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weight element (fig. 2, #12 or 17-19) is capable of being secured in any of a plurality of positions within one of said circumferential features. See figure 2 as modified below with the reference point on the weight element signifying the plurality of positions that the weight element is capable of being secured at within the circumferential feature.



In conclusion, applicant's arguments are not persuasive, and the claims remain rejected.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after

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the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the mailing

date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Chih-Cheng Glen Kao whose telephone number is (571) 272-

2492. The examiner can normally be reached on M - F (9 am to 5 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ed Glick can be reached on (571) 272-2490. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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gk

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